

**IN THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended). A vascular repair device, comprising:

a tubular graft body having a longitudinal axis and a circumference;

a structural framework having at least two Z-stents connected circumferentially to said graft body; and

a curved, metallic, longitudinal support member:

connected to said graft body;

having a centerline at said graft body parallel to said longitudinal axis; and

when viewed in an orientation where said longitudinal axis and said centerline are aligned with one another, said support member being substantially reverse-mirror symmetrical with respect to said longitudinal axis.

2 (original). The vascular repair device according to claim 1, wherein said longitudinal support member is of a material selected from the group consisting of nitinol, stainless steel, biopolymers, Cobalt Chrome, and titanium alloys.

3 (original). The vascular repair device according to claim 1, wherein said longitudinal support member has a flattened S-shape.

4 (original). The vascular repair device according to claim 1, wherein said longitudinal support member has a partial helix shape.

5 (original). The vascular repair device according to claim 1, wherein said longitudinal support member is curved with substantially asymptotic ends.

6 (original). The vascular repair device according to claim 1, wherein said longitudinal support member is connected to said graft body independent of said structural framework.

7-9 (withdrawn).

10 (original). The vascular repair device according to claim 1, wherein said longitudinal support member is pre-formed in said curved shape.

11 (original). The vascular repair device according to claim 1, wherein said longitudinal support member has rounded ends.

12 (original). The vascular repair device according to claim 1, wherein said longitudinal support member has a looped end with a curved longitudinal extremity.

13 (original). The vascular repair device according to claim 1, wherein said longitudinal support member has two looped ends each with curved longitudinal extremities.

14 (original). The vascular repair device according to claim 1, wherein said longitudinal support member is shorter than said structural framework.

15 (currently amended). A vascular repair device, comprising:

a tubular graft body having a longitudinal axis and a circumference;

a structural framework having at least two Z-stents connected circumferentially to said tubular graft body; and

a curved, metallic, longitudinal support member:

connected to said graft body independent of said structural framework;

having a centerline at said graft body parallel to said longitudinal axis; and

when viewed in an orientation where said longitudinal axis and said centerline are aligned with one another, said support member being substantially reverse-mirror symmetrical with respect to said longitudinal axis.

16 (currently amended). A vascular repair device, comprising:

a tubular graft body;

a structural framework having at least two Z-stents connected circumferentially to said tubular graft body; and

a longitudinal support member connected to said graft body independent of said structural framework and having two ends, at least one of said ends having a longitudinal extremity curved back upon itself.

17 (original). The vascular repair device according to claim 16, wherein said support member is curved.

18 (original). A vascular repair device, comprising:

a tubular graft body having a proximal end and a distal end;

a structural framework having at least two stents each respectively connected to said tubular graft body adjacent said proximal end and said distal end and defining a separation distance therebetween; and

a longitudinal support member shorter than said separation distance and being connected to said graft body between said at least two stents to form a gimbal at at least one of said proximal and distal ends of said graft body.

19 (original). The vascular repair device according to claim 18, wherein said support member is curved.

20 (currently amended). A vascular repair device, comprising:

a tubular graft body having a proximal end and a distal end;

a structural framework having at least first and second pairs of Z-stents each respectively connected to said graft body adjacent said proximal end and said distal end, said stents of each of said first and second pairs of stents being separated from one another at said graft body to define a respective outer stent and a respective inner stent; and

a longitudinal, metallic support member connected to said graft body and an entirety thereof extending between:

said inner stent of said first pair of stents; and

said outer stent of said second pair of stents.

21 (previously presented). The vascular repair device according to claim 20, wherein said support member is connected to said graft body and said entirety thereof extends between both of said inner stents of said pairs of stents.

22-23 (withdrawn).

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24 (original). The vascular repair device according to claim 20, wherein said support member is curved.

25 (currently amended). A vascular repair device, comprising:

a tubular graft body having a circumference, a proximal end and a distal end;

a structural framework having at least two pairs of stents each respectively connected to said graft body adjacent said proximal end and said distal end, said stents of each of said pairs of stents being separated from one another at said graft body to define a respective outer stent and a respective inner stent; and

a curved longitudinal support member;

having two ends;

having a portion between said two ends curved partially around said circumference of said tubular graft body; and

being connected to said graft body between both of said inner stents of said two pairs of stents.

26 (original). The vascular repair device according to claim 25, wherein said support member is connected to said graft body without touching said inner stents.

27 (original). The vascular repair device according to claim 25, wherein said support member is connected to said graft body to touch at least one of said inner stents.

28 (original). A vascular repair device, comprising:

a tubular graft body having first and second ends;

a structural framework having at least three stents, two of said stents being connected to said tubular graft body adjacent said first end, said two stents being separated from one another on said graft body to define an outer stent and an inner stent, a third of said stents being connected to said tubular graft body adjacent said second end; and

a longitudinal support member having two ends and being connected to said graft body between said inner stent and said third stent without touching said inner stent and said third stent.

29 (original). The vascular repair device according to claim 28, wherein said support member is curved.

30-39 (withdrawn).

40 (original). The vascular repair device according to claim 1, wherein said support member is substantially reverse-mirror symmetrical with respect to said centerline.

41 (previously presented). The vascular repair device according to claim 15, wherein said support member is substantially symmetrical with respect to said centerline.

42 (previously presented). The vascular repair device according to claim 17, wherein said support member has a centerline at said graft body parallel to said longitudinal axis and is substantially reverse-mirror symmetrical with respect to said centerline.

43 (previously presented). The vascular repair device according to claim 19, wherein said support member has a centerline at said graft body parallel to said longitudinal axis and is substantially reverse-mirror symmetrical with respect to said centerline.

44 (previously presented). The vascular repair device according to claim 24, wherein said support member has a centerline at said graft body parallel to said longitudinal axis and is substantially reverse-mirror symmetrical with respect to said centerline.

45 (previously presented). The vascular repair device according to claim 25, wherein said support member has a centerline at said graft body parallel to said longitudinal axis and is substantially reverse-mirror symmetrical with respect to said centerline.

46 (previously presented). The vascular repair device according to claim 29, wherein said support member has a centerline at said graft body parallel to said longitudinal axis and is substantially reverse-mirror symmetrical with respect to said centerline.

47 (original). The vascular repair device according to claim 1, wherein said graft body has a diameter at least as large as a diameter of a vessel into which said graft body is to be placed.

48 (original). The vascular repair device according to claim 1, wherein:

said at least two stents each have apices;

said structural framework has a distal-most stent; and

said distal-most stent has at least one more apex than another of said at least two stents.

49 (original). The vascular repair device according to claim 15, wherein said graft body has a diameter at least as large as a diameter of a vessel into which said graft body is to be placed.

50 (original). The vascular repair device according to claim 15, wherein:

said at least two stents each have apices;

said structural framework has a distal-most stent; and

said distal-most stent has at least one more apex than another of said at least two stents.

51 (original). The vascular repair device according to claim 16, wherein said graft body has a diameter at least as large as a diameter of a vessel into which said graft body is to be placed.

52 (original). The vascular repair device according to claim 16, wherein:

said at least two stents each have apices;

said structural framework has a distal-most stent; and

said distal-most stent has at least one more apex than another of said at least two stents.

53 (original). The vascular repair device according to claim 18, wherein said graft body has a diameter at least as large as a diameter of a vessel into which said graft body is to be placed.

54 (original). The vascular repair device according to claim 18, wherein:

said at least two stents each have apices;

said structural framework has a distal-most stent; and

said distal-most stent has at least one more apex than another of said at least two stents.

55 (original). The vascular repair device according to claim 20, wherein said graft body has a diameter at least as large as a diameter of a vessel into which said graft body is to be placed.

56 (original). The vascular repair device according to claim 20, wherein:

said stents each have apices;

one of said pairs of stents adjacent said distal end has a distal-most stent; and



said distal-most stent has at least one more apex than another of said stents.

57 (original). The vascular repair device according to claim 25, wherein said graft body has a diameter at least as large as a diameter of a vessel into which said graft body is to be placed.

58 (original). The vascular repair device according to claim 25, wherein:

said stents each have apices;

one of said pairs of stents adjacent said distal end has a distal-most stent; and

said distal-most stent has at least one more apex than another of said stents.

59 (original). The vascular repair device according to claim 28, wherein said graft body has a diameter at least as large as a diameter of a vessel into which said graft body is to be placed.

60 (original). The vascular repair device according to claim 28, wherein:

said stents each have apices;

one of said stents is a distal-most stent; and

said distal-most stent has at least one more apex than another of said stents.

61-64 (withdrawn).

65 (original). The vascular repair device according to claim 1, wherein:

said graft body has a longitudinal extent defining a longitudinal direction; and

said stents have a substantially linear profile in said longitudinal direction.

66 (original). The vascular repair device according to claim 65, wherein said stents have a linear longitudinal profile.

67 (original). The vascular repair device according to claim 65, wherein said stents have a circular cross-sectional shape.

68-69 (withdrawn).

70 (original). The vascular repair device according to claim 15, wherein:  
said graft body has a longitudinal extent defining a longitudinal direction; and  
said stents have a substantially linear profile in said longitudinal direction.

71 (original). The vascular repair device according to claim 70, wherein said stents have a linear longitudinal profile.

72 (original). The vascular repair device according to claim 70, wherein said stents have a circular cross-sectional shape.

73-74 (withdrawn).

75 (original). The vascular repair device according to claim 16, wherein:  
said graft body has a longitudinal extent defining a longitudinal direction; and  
said stents have a substantially linear profile in said longitudinal direction.

76 (original). The vascular repair device according to claim 75, wherein said stents have a linear longitudinal profile.

77 (original). The vascular repair device according to claim 75, wherein said stents have a circular cross-sectional shape.

78-79 (withdrawn).

80 (original). The vascular repair device according to claim 18, wherein:  
said graft body has a longitudinal extent defining a longitudinal direction; and  
said stents have a substantially linear profile in said longitudinal direction.

81 (original). The vascular repair device according to claim 80, wherein said stents have a linear longitudinal profile.

82 (original). The vascular repair device according to claim 80, wherein said stents have a circular cross-sectional shape.

83-84 (withdrawn).

85 (original). The vascular repair device according to claim 20, wherein:  
said graft body has a longitudinal extent defining a longitudinal direction; and  
said stents have a substantially linear profile in said longitudinal direction.

86 (original). The vascular repair device according to claim 85, wherein said stents have a linear longitudinal profile.

87 (original). The vascular repair device according to claim 85, wherein said stents have a circular cross-sectional shape.

88-89 (withdrawn)

90 (original). The vascular repair device according to claim 25, wherein:  
said graft body has a longitudinal extent defining a longitudinal direction; and  
said stents have a substantially linear profile in said longitudinal direction.

91 (original). The vascular repair device according to claim 90, wherein said stents have a linear longitudinal profile.

92 (original). The vascular repair device according to claim 90, wherein said stents have a circular cross-sectional shape.

93-94 (withdrawn).

95 (original). The vascular repair device according to claim 28, wherein:  
said graft body has a longitudinal extent defining a longitudinal direction; and  
said stents have a substantially linear profile in said longitudinal direction.

96 (original). The vascular repair device according to claim 95, wherein said stents have a linear longitudinal profile.

97 (original). The vascular repair device according to claim 95, wherein said stents have a circular cross-sectional shape.

98-109 (withdrawn).